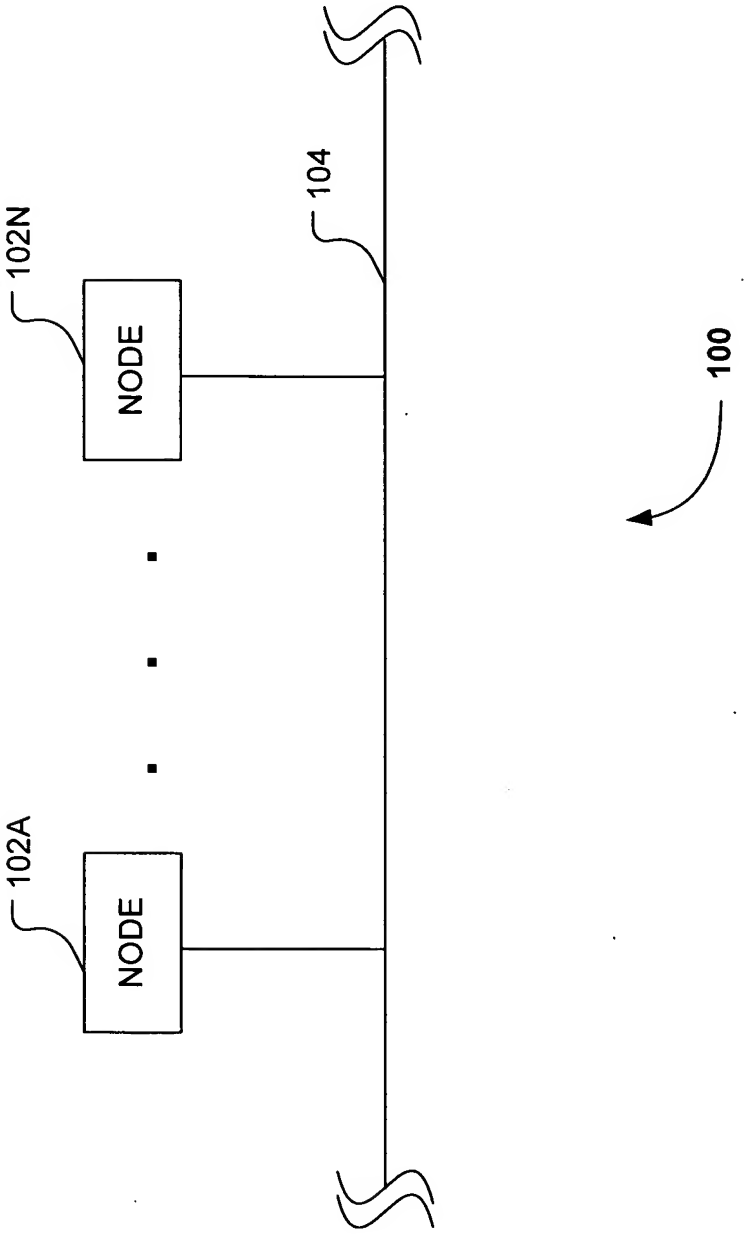


FIG. 1

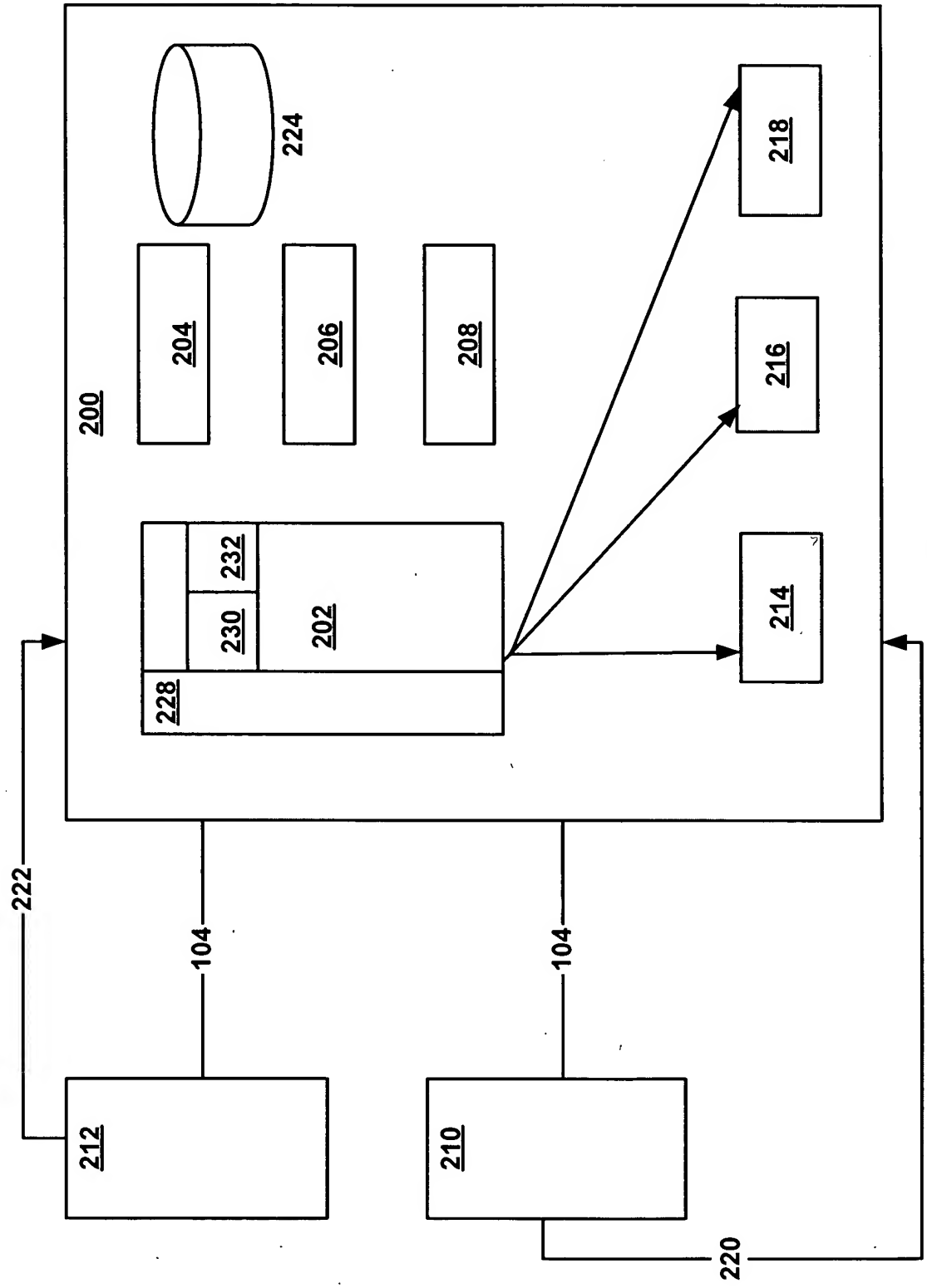

224
218
204
206
208
216
200
232
230
202
214
228
222
104
104
212
210
220

FIG. 2

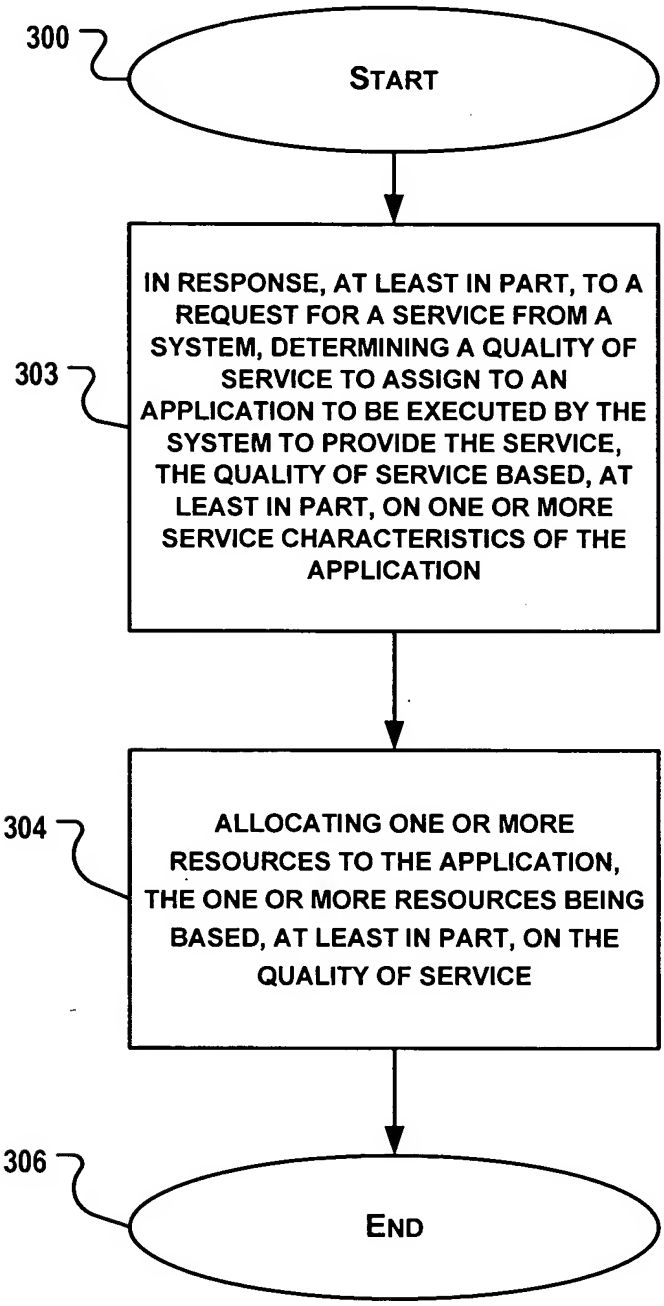

300
START
IN RESPONSE, AT LEAST IN PART, TO A REQUEST FOR A SERVICE FROM A SYSTEM, DETERMINING A QUALITY OF SERVICE TO ASSIGN TO AN APPLICATION TO BE EXECUTED BY THE SYSTEM TO PROVIDE THE SERVICE, THE QUALITY OF SERVICE BASED, AT LEAST IN PART, ON ONE OR MORE SERVICE CHARACTERISTICS OF THE APPLICATION
303
ALLOCATING ONE OR MORE RESOURCES TO THE APPLICATION, THE ONE OR MORE RESOURCES BEING BASED, AT LEAST IN PART, ON THE QUALITY OF SERVICE
304
306
END

FIG. 3

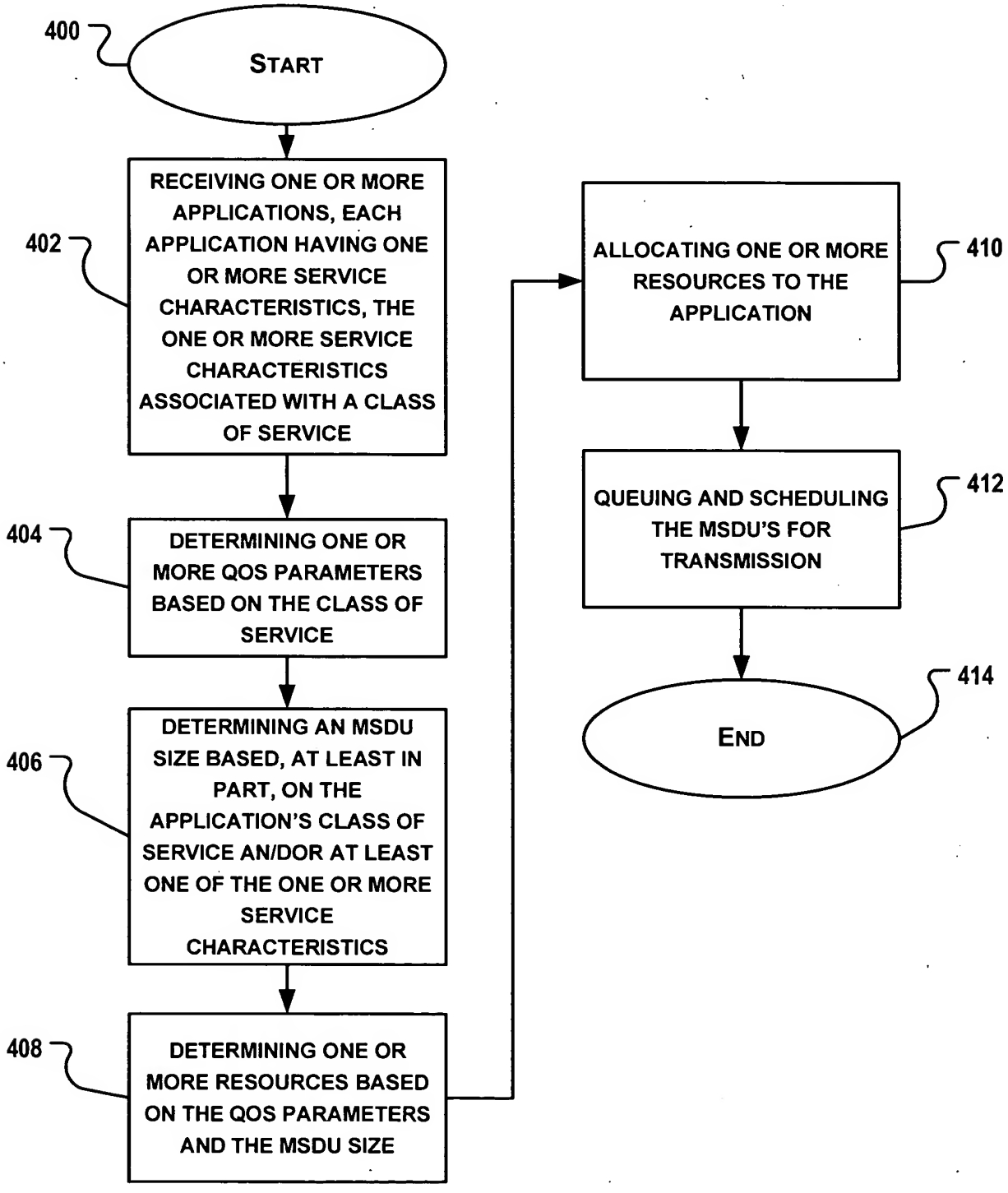
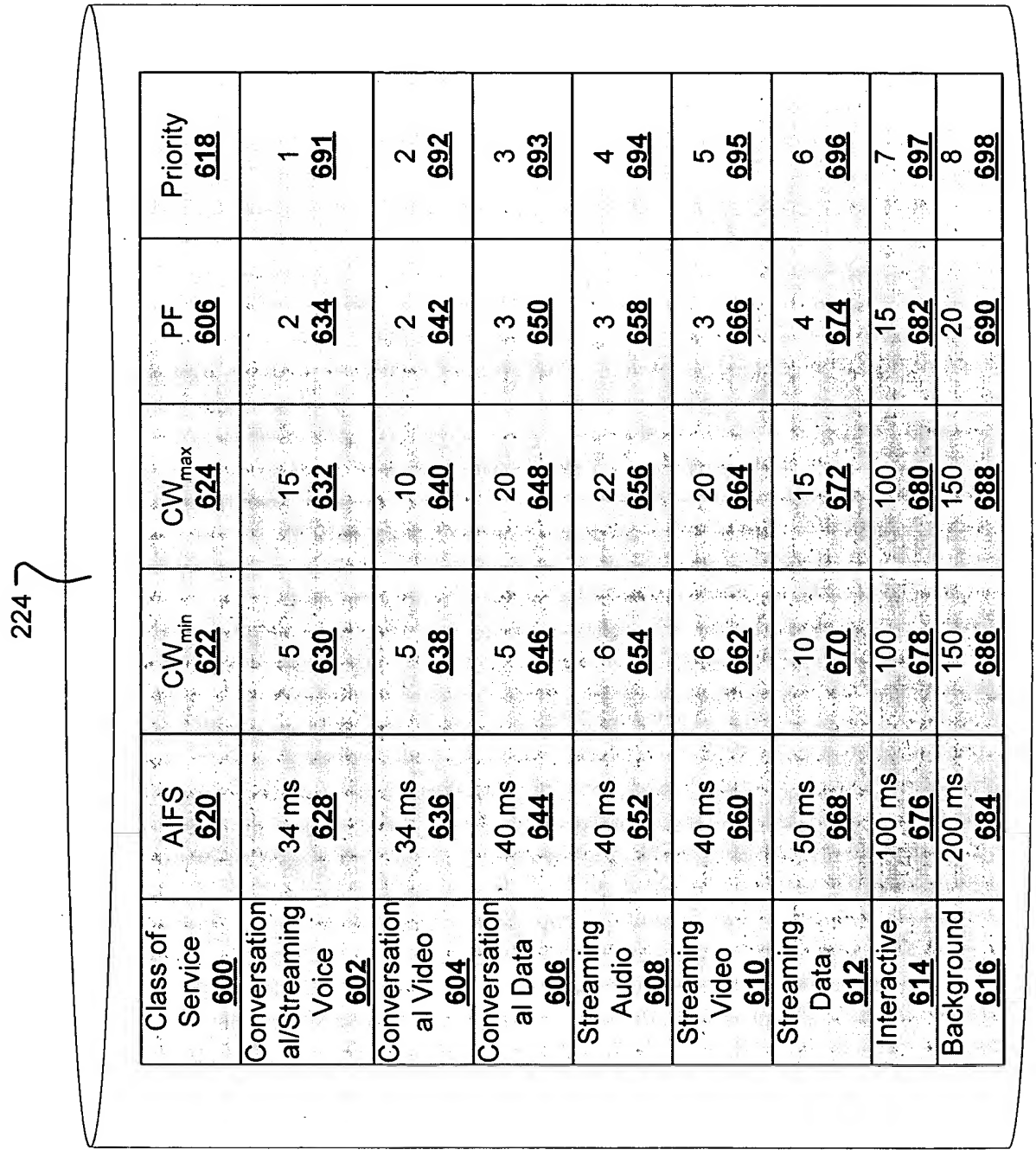

400
START
402
RECEIVING ONE OR MORE APPLICATIONS, EACH APPLICATION HAVING ONE OR MORE SERVICE CHARACTERISTICS, THE ONE OR MORE SERVICE CHARACTERISTICS ASSOCIATED WITH A CLASS OF SERVICE
404
DETERMINING ONE OR MORE QOS PARAMETERS BASED ON THE CLASS OF SERVICE
406
DETERMINING AN MSDU SIZE BASED, AT LEAST IN PART, ON THE APPLICATION'S CLASS OF SERVICE AN/DOR AT LEAST ONE OF THE ONE OR MORE SERVICE CHARACTERISTICS
408
DETERMINING ONE OR MORE RESOURCES BASED ON THE QOS PARAMETERS AND THE MSDU SIZE
410
ALLOCATING ONE OR MORE RESOURCES TO THE APPLICATION
412
QUEUING AND SCHEDULING THE MSDU'S FOR TRANSMISSION
414
END

FIG. 4

Examples of Applications 512	Bandwidth 512	Burstiness 514	Packet Loss 516	Delay 518
Compressed Voice 500	8-13 Kbps 520	4-8 522	10^{-6} 524	<= 140ms, Stable 526
PCM Voice 502	64 Kbps 528	1 530	10^{-4} 532	<= 140ms, Stable 534
E-Mail 504	46 Kbps 536	1-10 538	10^{-9} 540	Minutes-Hrs 542
Internet Chat 506	46 Kbps 544	10-100 546	10^{-9} 548	Seconds 550
Client/Server 508	10-100 Mbps 552	1000 554	10^{-9} 556	10-400 ms 558
MPEG2 510	1.4-6 Mbps 560	1-2 562	10^{-12} 564	40 ms, Stable 566
HDTV 512	31-248 Mbps 568	2-4 570	10^{-12} 572	40 ms, Stable 574

FIG. 5



Class of Service 600	AIFS 620	CW_{min} 622	CW_{max} 624	PF 606	Priority 618
Conversational/Streaming Voice 602	34 ms 628	5 630	15 632	2 634	1 691
Conversational Video 604	34 ms 636	5 638	10 640	2 642	2 692
Conversational Data 606	40 ms 644	5 646	20 648	3 650	3 693
Streaming Audio 608	40 ms 652	6 654	22 656	3 658	4 694
Streaming Video 610	40 ms 660	6 662	20 664	3 666	5 695
Streaming Data 612	50 ms 668	10 670	15 672	4 674	6 696
Interactive 614	100 ms 676	100 678	100 680	15 682	7 697
Background 616	200 ms 684	150 686	150 688	20 690	8 698

FIG. 6

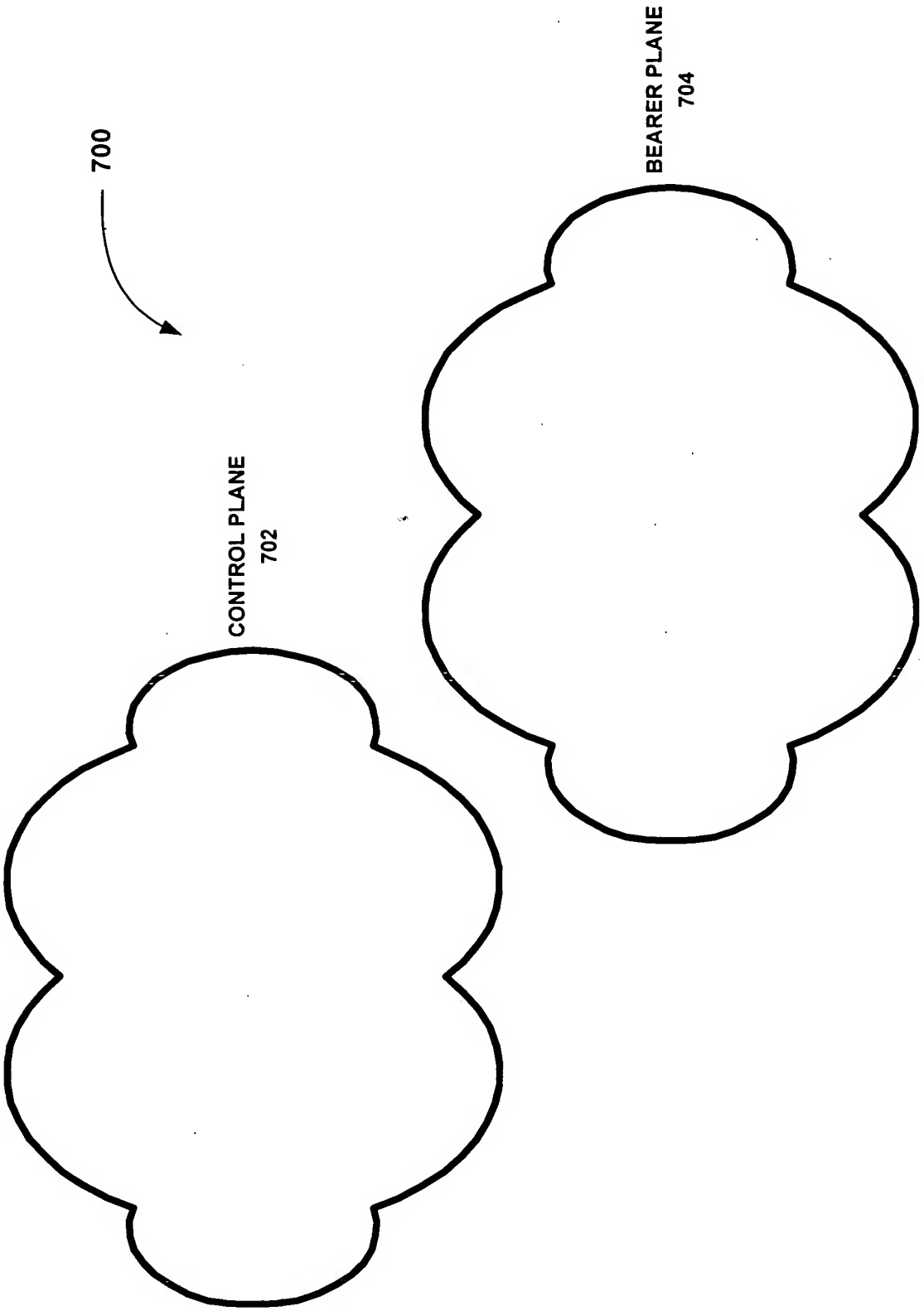


FIG. 7